



DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

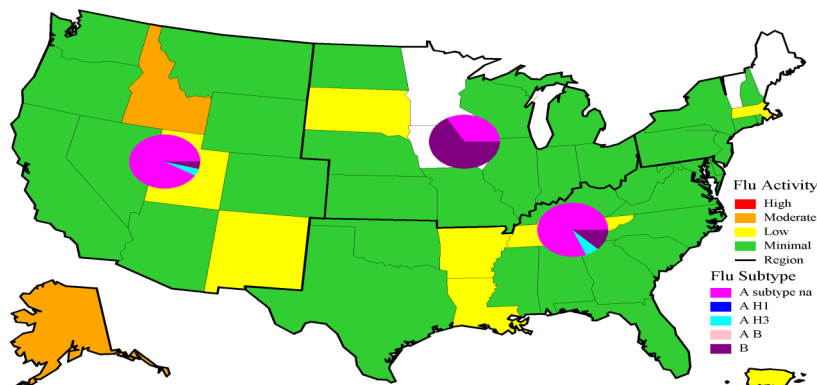


Northern Command -- Week 45 (02 Nov—08 Nov 2014)

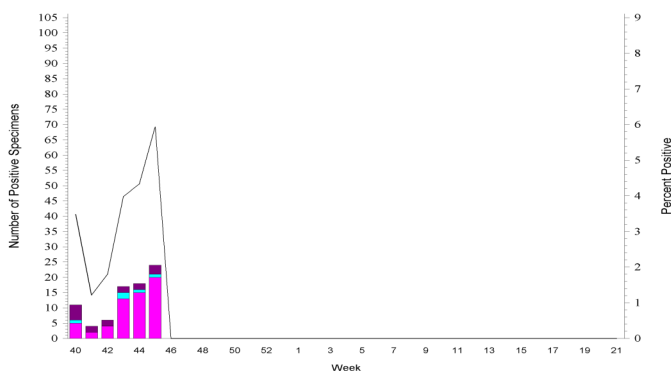
In NORTHCOM during week 45^{1,2}

- ◆ For service members, influenza activity remained low.
- ◆ Influenza A is mostly circulating throughout the command with a small percentage of flu B circulating as well.
- ◆ The percent of positive lab tests for service members was 3.6% and 3.3% for dependents.

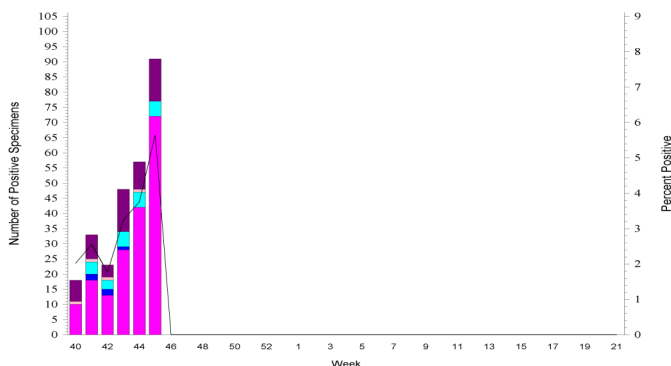
NORTHCOM Service Member, Influenza Activity and Virus Subtype



NORTHCOM Service Member, Influenza Positive Tests Reported to AFHSC



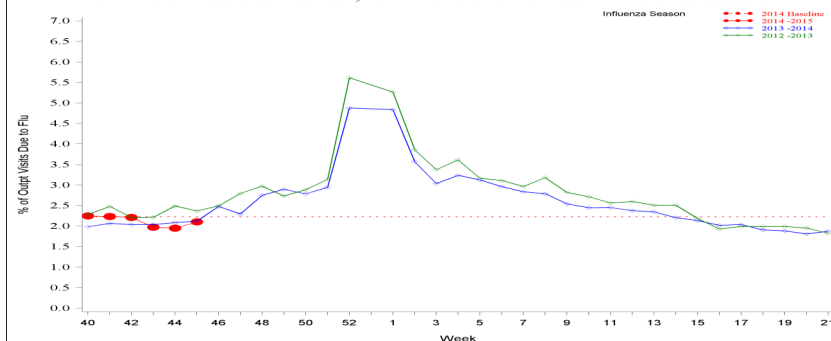
NORTHCOM Beneficiary, Influenza Positive Tests Reported to AFHSC



2014 – 2015 NORTHCOM Season Totals^{1,2}

| | A/H1N1 | A/H3N2 | A/Untyped | Flu B | % Positive |
|-----------------|--------|--------|-----------|-------|------------|
| Service Members | 0 | 5 | 59 | 16 | 3.6 |
| Dependents | 5 | 27 | 183 | 56 | 3.3 |

NORTHCOM Service Member, 2014-2015 and Previous 2 Influenza Seasons



Immunization Coverage (As of 23 Oct 14)

| Active Component Only | All Services | Army | Marines | Navy | Coast Guard | Air Force |
|----------------------------|--------------|------|---------|------|-------------|-----------|
| Seasonal Influenza Vaccine | 51% | 53% | 35% | 38% | 70% | 65% |

Sources: Immunization Healthcare Branch (DHA), ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIR FORCE-AFCITA

Recruit Surveillance³

Respiratory illness rates at all basic training centers are at or below expected values

| | Week 45 ³ | | | | 2013 – 2014 Recruit Season Totals ³ | | | |
|--------------------|----------------------|--------|-----------|-------|--|--------|----------------|-------|
| | A/H1N1 | A/H3N2 | A/Untyped | Flu B | A/H1N1 | A/H3N2 | A/Not Subtyped | Flu B |
| Ft Benning | | | | | | | | |
| Ft Jackson | | | | | | | | |
| Ft Leonard Wood | | | | | | | | |
| NRTC Great Lakes | | | | | | | | |
| Lackland AFB | | | | | | | | |
| MCRD Parris Island | | | | | | | | 1 |
| MCRD San Diego | | | | | | | | |
| CGTC Cape May | | | | | | | | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

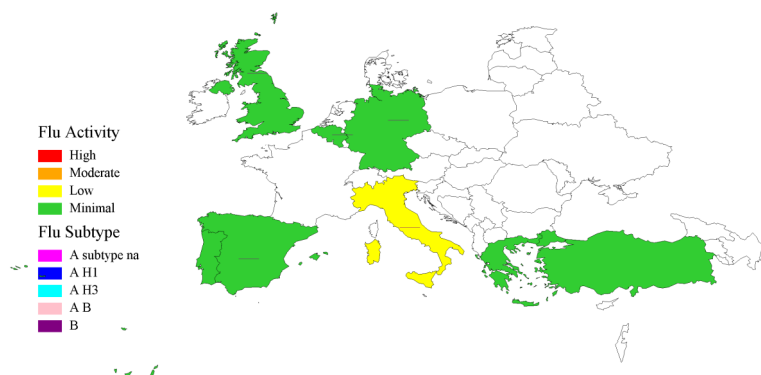
¹AFHSC, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

**European Command -- Week 45**

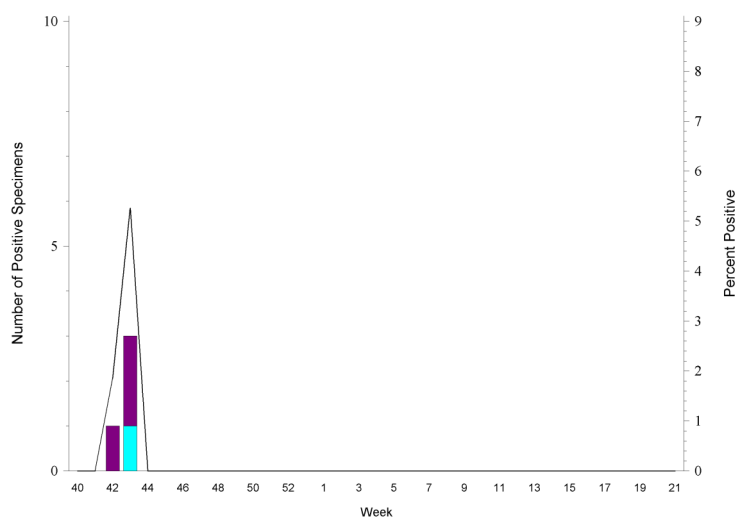
In EUROM during week 45^{1,4,5}

- ◆ Among service members, influenza activity was low but spiked just above baseline.
- ◆ The percent of positive lab tests for service members and dependents is remains low, 1.08 and 1.64, respectively.

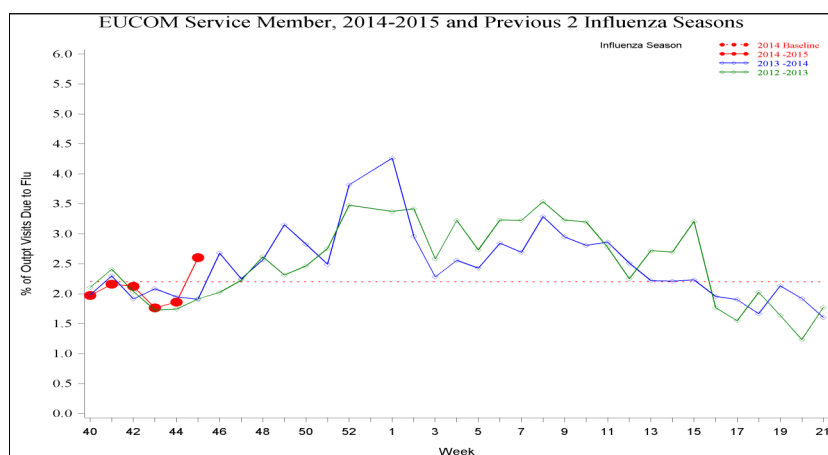
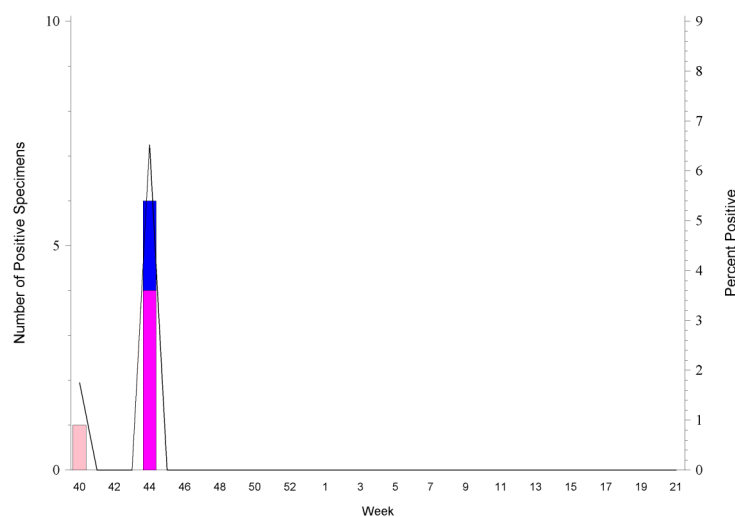
EUROM Service Member, Influenza Activity and Virus Subtype



EUROM Service Member, Influenza Positive Tests Reported to AFHSC



EUROM Beneficiary, Influenza Positive Tests Reported to AFHSC

**2014-2015 EUROM Season Totals^{1,4,5}**

| | A/H1N1 | A/H3N2 | A/Untyped | Influenza B | AB | % Positive |
|-----------------|--------|--------|-----------|-------------|----|------------|
| Service Members | 0 | 1 | 0 | 3 | 0 | 1.08 |
| Dependents | 2 | 0 | 4 | 0 | 1 | 1.64 |

¹AFHSC, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

**Pacific Command -- Week 45**

In PACOM during week 45^{1,6,7}

- ◆ Influenza activity is minimal and remains below baseline in service members.
- ◆ The majority of cases have been influenza A/ untyped among service members and dependents.
- ◆ The percent positive for service members and dependents is 8.43 and 12.14, respectively.

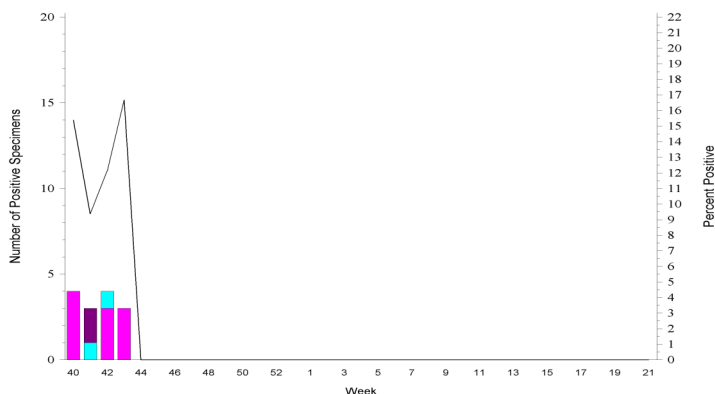
PACOM Service Member, Influenza Activity and Virus Subtype
South Korea and Japan



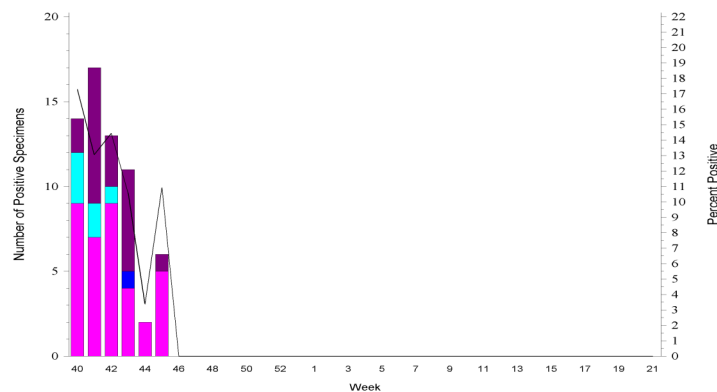
PACOM: GUAM and HI Influenza activity and HL7 Test Positive (MAP: SM+BN, 2 wks)

| Area Name | Influenza Activity | HL7 Type | | | | |
|-----------|--------------------|----------|-------|-----------|---|----|
| | | A(H1) | A(H3) | A Untyped | B | AB |
| GUAM | 2:Low | 0 | 0 | 3 | 1 | 0 |
| HI | 1:Minimal | 0 | 0 | 4 | 0 | 0 |

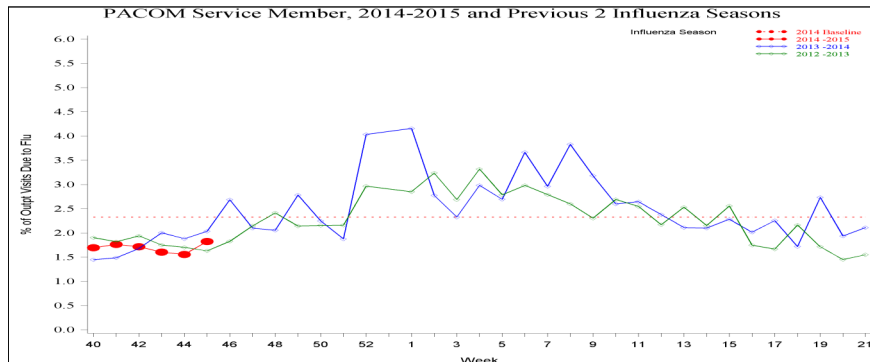
PACOM Service Member, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiary, Influenza Positive Tests Reported to AFHSC



PACOM Service Member, 2014-2015 and Previous 2 Influenza Seasons



2014-2015 PACOM Season Totals^{1,6,7}

| | A/H1N1 | A/H3N2 | A/Untyped | Flu B | % Positive |
|-----------------|--------|--------|-----------|-------|------------|
| Service Members | 0 | 2 | 10 | 2 | 8.43 |
| Dependents | 1 | 6 | 36 | 20 | 12.14 |

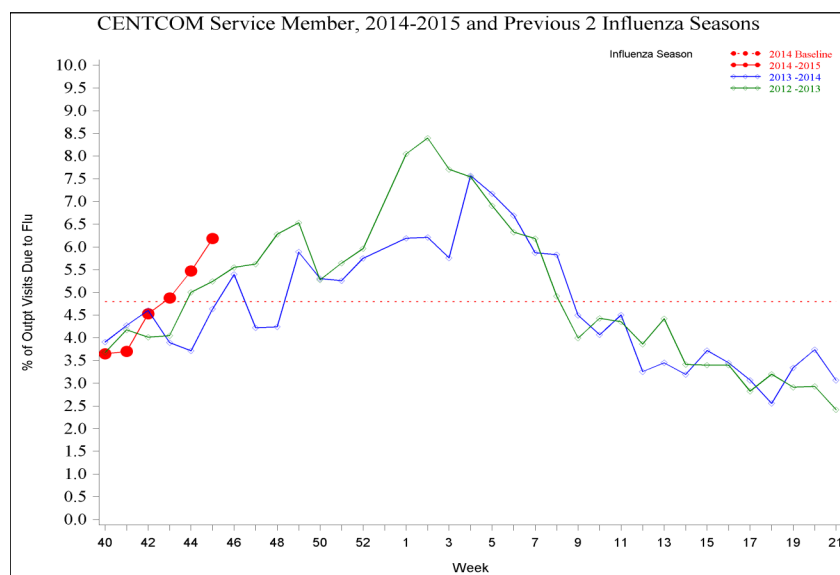
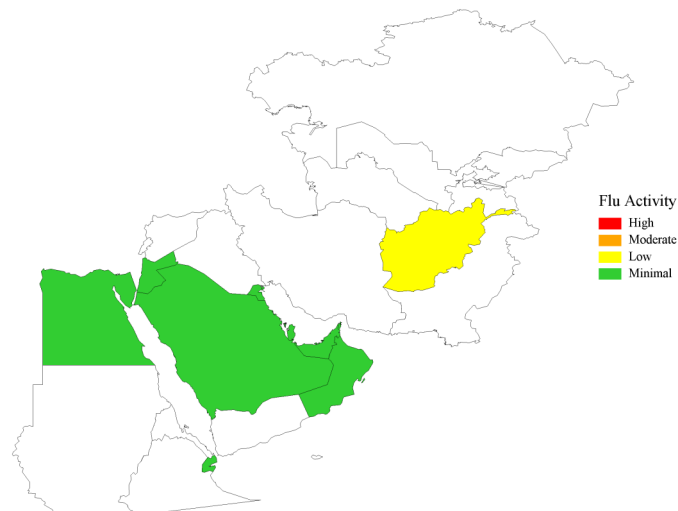
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**Central and Africa Commands -- Week 45**

In CENTCOM and AFRICOM during week 45^{1,8,9}

- ◆ Influenza activity is minimal, but slightly above base-line in week 43 for service members.

CENTCOM, Influenza Activity

**Southern Command -- Week 45
(Local Nationals Only)**

In SOUTHCOM during week 44¹⁰

- ◆ Among local nationals in SOUTHCOM, influenza remained low and ILI activity remained within expected levels

| 2014-2015 SOUTHCOM Season Totals Among Local Nationals ¹⁰ | | | | | |
|--|--------|--------|-----------|-------------|------------|
| | A/H1N1 | A/H3N2 | A/Untyped | Influenza B | % Positive |
| Colombia | 0 | 0 | 0 | 0 | 0 |
| Peru | 0 | 0 | 0 | 0 | 0 |

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Description:

Maps, figures and tables are stratified by Combatant Commands (CCMD). The map provides a measure of influenza activity by state or country within each CCMD for the past two weeks for service members. Influenza activity is defined by the percentage of outpatient visits associated with influenza for that week compared to baseline levels of influenza activity. Additionally, a pie graph by US region or country is generated to display the distribution of influenza types and subtype identified from positive laboratory tests for the past two weeks combined.

Influenza activity: Percentage of Outpatient Visits Associated with Influenza:

The percentage of all outpatient visits for influenza (defined as having an Influenza-like Illness (ILI) or Pneumonia and Influenza (P&I) diagnosis) is calculated each week for (1) all service members, regardless of component and (2) all other DoD beneficiaries. This data is presented as a map of the past two week's activity and a figure to display the entire season's data compared to the two prior seasons and baseline. For the map, the activity level compares the mean reported percent of visits due to influenza for the past two weeks to the mean reported percent of visits due to influenza during baseline weeks. Baseline weeks are defined as non-influenza weeks (weeks 22-39) over the past 3 years.

There are four activity levels reported on each map. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current week compared to the mean of the baseline weeks. Activity levels are classified as minimal, low, moderate, and high. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza Positive Tests:

Only lab results from PCR or viral culture assays are reported. Influenza types/subtypes are categorized as influenza A not subtyped (A subtype na), influenza A H1 (A H1), influenza A H3 (A H3), influenza A and B co-infection (A B), and influenza B (B).

Map: Each US region or country with available data contains a pie chart that displays the distribution of influenza types and subtypes for that area for the past two weeks combined. Two weeks of data are combined instead of using just the current week's data due to a delay in reporting of laboratory results.

Figure and Table: Each week the total number of influenza laboratory tests performed and the proportion and serotype of influenza positive tests is calculated for all DoD beneficiaries (service members and dependents combined).

Data Sources and Case Definitions:

Medical encounter and demographic data from the Armed Forces Health Surveillance Center's (AFHSC) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza is defined using the combined codes for ILI (79.99, 382.9, 460, 461.9, 465.8, 465.9, 466.0, 486, 487.0, 487.1, 487.8, 488, 490, 780.6, or 786.2) and P&I (480-488). An individual can only be counted as a case once per week.

NORTHCOM Regions:

The regions on the NORTHCOM map (bold, black outlines) are defined using the ten US Department of Health and Human Services regions, with the exception of Hawaii and Guam which are a part of PACOM. *Region 1:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. *Region 2:* New Jersey, New York, Puerto Rico, and the U.S. Virgin Islands. *Region 3:* Delaware, the District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia. *Region 4:* Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. *Region 5:* Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. *Region 6:* Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. *Region 7:* Iowa, Kansas, Missouri, and Nebraska. *Region 8:* Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. *Region 9:* Arizona, California, Nevada. *Region 10:* Alaska, Idaho, Oregon, and Washington.

(All data are preliminary and subject to change as updated data is received)

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